

PK-232/DSP

Timewave

New Upgrade for the PK-232/PK-232MBX!

Timewave's

Powerful DSP Technology

Improves the PK-232!

Timewave's customers swear by their DSP filters and PK-232 owners love the flexibility and reliability of the most popular data controller ever built. The PK-232/DSP rolls it all into one! The PK-232/DSP daughter board brings a new level of performance to the legendary PK-232 with sharp, accurate filters for all the data modes. Noise and QRM bounce off the new filters for cleaner copy with fewer errors than the old analog filters. Weak signals magically appear from the noise.

More Filters, Better Filters, Automatic selection

The PK-232 was designed in 1985 before the advent of affordable DSP technology. The filters in today's analog TNC's were state-of-the art in 1985, but they pale beside the performance of DSP filters. (We know a bit about RTTY/data filters - old and new. Timewave built a DSP Terminal Unit for the U.S. Navy in 1988, before most amateur radio companies could even spell DSP! Unfortunately, \$3000 for a TU was a little high for the average ham, so we put DSP on hold for the ham market until 1993.)

The PK-232/DSP brickwall filters have tighter bandwidth and steeper skirts for improved noise and QRM rejection. A new version of the PK-232 firmware (Ver. 7.2) allows a wider selection of filters than the original PK-232, so the filter can match the mode. The correct DSP filter is automatically selected when you choose a new mode. In RTTY, Timewave's proven Twin Peak Filters pluck the mark and space tones from the noise and QRM for great copy. In PACTOR, the filter bandwidth automatically changes when the baud rate shifts in response to the error rate of the link. In Morse (CW), the operator can preset either 100 Hz or 200 Hz bandwidth. The PK-232/DSP is completely compatible with all existing software terminal programs for the PK-232.

Features

- **Digital Signal Processor**
- **16 Bit A/D-D/A**
- **18 DSP Filters**
- **Twin Peak RTTY Filters**
- **Adaptive PACTOR filters**
- **100 Hz CW Filter**
- **Automatic Operation**
- **All standard modes**
- **Low tone set for Europe**

Easy Installation

Installation in the PK-232 and PK-232MBX is easy. If you have installed a PK-232MBX daughterboard, you already know how to install the PK-232/DSP daughterboard. It's as simple as plugging in the daughterboard and 2 new PK-232 EPROMS, soldering three connections, and clipping a couple of component leads. If you have an early PK-232 without the MBX (mailbox) daughterboard, you get both the MBX and DSP daughterboards with the new version 7.2 EPROMs to bring your PK-232 up to date. There are some variations of the procedure, depending upon which version of the PK-232 you have. The upgrade comes with complete instructions, in addition to Timewave's on-line and telephone support. Dealer and factory installation is also available.

All the Proven Modes

The PK-232/DSP supports all the PK-232 modes - PACTOR, VHF/HF Packet, AMTOR/SITOR, Baudot, ASCII, Morse, HF Weather FAX, TDM, and NAVTEX. The PK232/DSP upgrade includes the MBX upgrade for maildrop operation for Packet, AMTOR, and PACTOR.

Specifications

Digital Signal Processor	Analog Devices ADSP2104
Size	2.5x 4.5 inches
Power	provided by PK-232

